

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: BRAGG POND	Lake Area (ha):	4.49
Town: MILLSFIELD	Maximum depth (m):	2.5
County: Coos	Mean depth (m):	0.6
River Basin: Androscoggin	Volume (m ³):	26500
Latitude: 44°45'58" N	Relative depth:	1.0
Longitude: 71°15'11" W	Shore configuration:	1.36
Elevation (ft): 1707	Areal water load (m/yr):	415.6
Shore length (m): 1020	Flushing rate (yr ⁻¹):	701.5
Watershed area (ha): 3194.2	P retention coeff.:	0.01
% watershed ponded: 2.4	Lake type:	artificial

BIOLOGICAL:

10 August 1999

DOM. PHYTOPLANKTON (% TOTAL)	#1	MELOSIRA 40%
	#2	MICROCYSTIS 8%
	#3	ASTERIONELLA 7%
PHYTOPLANKTON ABUNDANCE (units/mL)		
CHLOROPHYLL-A (µg/L)		12.32
DOM. ZOOPLANKTON (% TOTAL)	#1	BOSMINA 54%
	#2	NAUPLIUS LARVA 17%
	#3	CYCLOPOID COPEPOD 13%
ROTIFERS/LITER		16
MICROCRUSTACEA/LITER		614
ZOOPLANKTON ABUNDANCE (#/L)		647
VASCULAR PLANT ABUNDANCE		Sparse
SECCHI DISK TRANSPARENCY (m)		1.7
BOTTOM DISSOLVED OXYGEN (mg/L)		8.3
BACTERIA (E. coli, #/100 ml)	#1	
	#2	
	#3	

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m³): None
Anoxic volume (m³): None

CHEMICAL:

Lake: BRAGG POND

Town: MILLSFIELD

		10 August 1999			
DEPTH (m)			1.0		2.0
pH (units)			7.0		6.6
A.N.C. (Alkalinity)			8.7		7.0
NITRATE NITROGEN			< 0.05		< 0.05
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS			0.018		0.011
CONDUCTIVITY (μ mhos/cm)			28.2		28.3
APPARENT COLOR (cpu)			31		30
MAGNESIUM			0.67		
CALCIUM			3.2		
SODIUM			1.5		
POTASSIUM			< 0.40		
CHLORIDE			< 2		< 2
SULFATE			2		2
TN : TP					
CALCITE SATURATION INDEX			2.9		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1999

D.O. S.D. PLANT CHL TOTAL CLASS

**	4	0	3	7	Meso.
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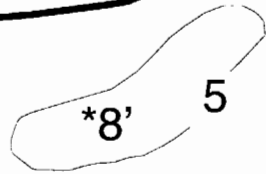
COMMENTS:

1. This is a relatively remote pond located up a 4-wheel drive road. In the DES list of official public waters, Bragg Pond is listed as 'dam in ruins - less than 9 acres'. We found a 10 or 11 acre pond (perhaps beaver activity?).
2. This pond was not sampled during the winter.

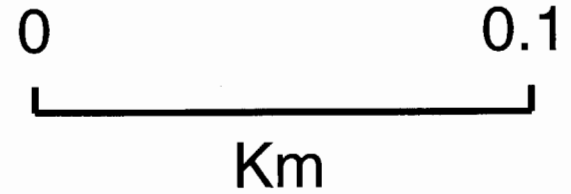
Bragg Pond

Millsfield

09-III



5 foot depth contour



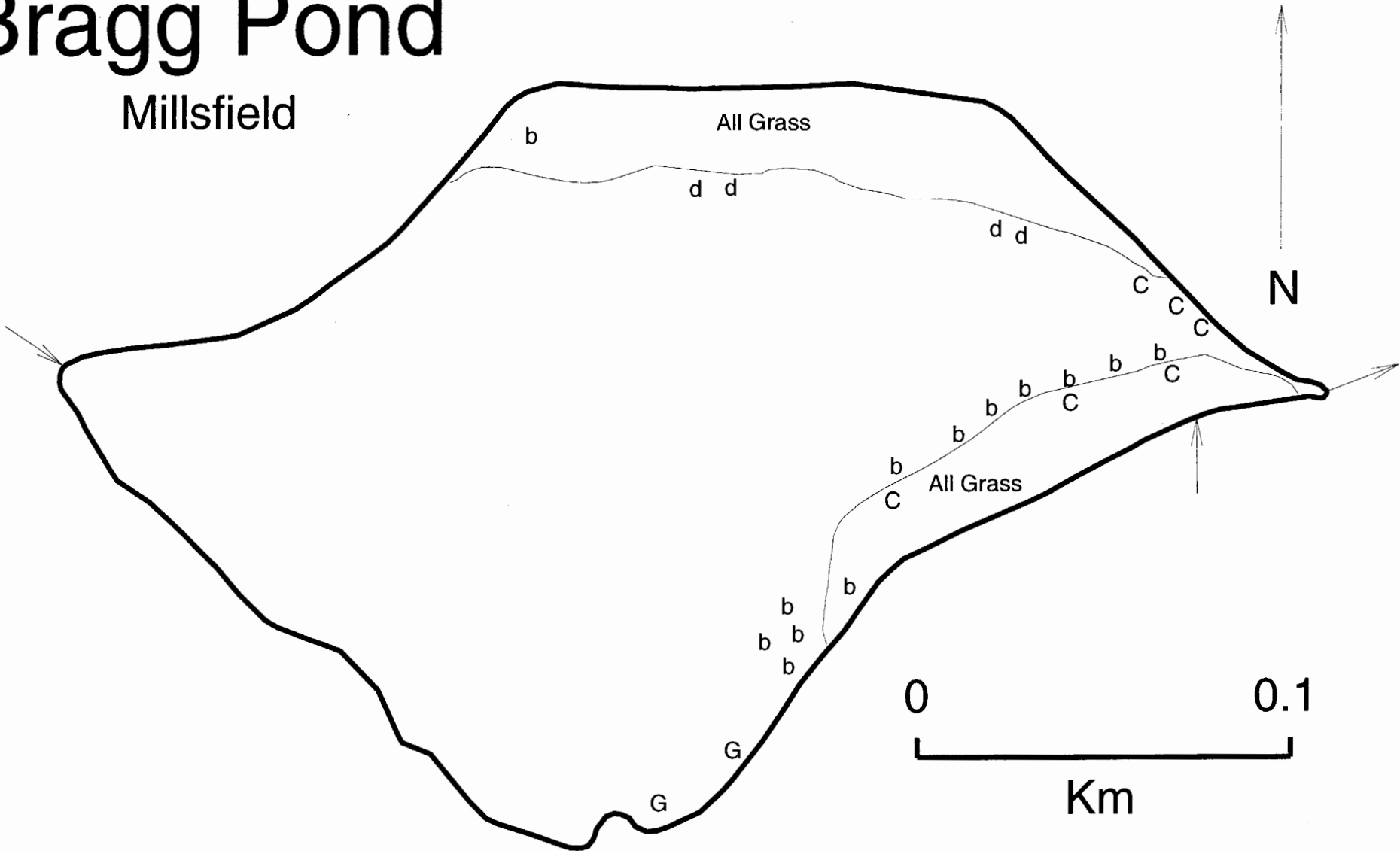
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COMMENTS :

III-61

Bragg Pond

Millsfield



III-62

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